











# TEST REPORT

Report No ...... : WTH25H03058957R1C

Applicant ...... Foshan Blue Rocket Electronics Co.,Ltd.

Address ...... NO.45 GUXIN ROAD, CHANCHENG

DISTRICT, FOSHAN, GUANGDONG, P.R.C.

Sample Name ...... : Semiconductor Device

Sample Model ..... : TSOT23-6

Test Requested : Refer to next page (s)

Test Conclusion : Refer to next page (s)

**Date of Receipt sample** ..... : 2025-03-14

**Testing period**..... : 2025-03-14 ~ 2025-03-18

**Date of Issue** : 2025-03-18

Test Result ...... : Refer to next page (s)

#### Prepared By:

# Waltek Testing Group HCT (Shenzhen) Co., Ltd.

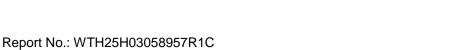
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Tel:+86-755-84616666/400-0066-989 E-mail:service@hct-test.com

Signed for and on behalf of

Waltek Testing Group HCT (Shenzhen) Co., Ltd.

黄胜明/Michael Julangin & Testing Services
Waltek Testing Group HCT (Shenzhen) Co., Ltd.
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Test Requested	Test Conclusion
1. Determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content	PASS
in the sample with reference to Client's Limit.	PASS
2. Determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content	
in the sample with reference to EU RoHS Directive 2011/65/EU and its amendment	PASS
Directive EU 2015/863.	

# Test Result(s):

# Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content

Test Method/Equipment: IEC 62321-5:2013,IEC 62321-4:2013+AMD1:2017,IEC 62321-7-2:2017, IEC 62321-6:2015,IEC 62321-8:2017; ICP-OES,UV-VIS,GC-MS

Test Item(s)	l lmit	MDI	Result(s)	Client's	RoHS
	Unit	MDL	1-1	Limit	Limit
Lead(Pb)	mg/kg	2	ND	600#	1000
Cadmium(Cd)	mg/kg	2	ND	75	100
Mercury(Hg)	mg/kg	2	ND	600	1000
Hexavalent Chromium(Cr(VI))	mg/kg	8	ND	600	1000
Mono-bromobiphenyl	mg/kg	5	ND	_	
Di-bromobiphenyl	mg/kg	5	ND	_	
Tri-bromobiphenyl	mg/kg	5	ND	_	
Tetra-bromobiphenyl	mg/kg	5	ND	_	_
Penta-bromobiphenyl	mg/kg	5	ND	_	_
Hexa-bromobiphenyl	mg/kg	5	ND	_	_
Hepta-bromobiphenyl	mg/kg	5	ND	_	_
Octa-bromobiphenyl	mg/kg	5	ND	_	_
Nona-bromobiphenyl	mg/kg	5	ND	_	_
Deca-bromobiphenyl	mg/kg	5	ND	_	_
Polybrominated Biphenyls(PBBs)	mg/kg		ND	600	1000
Mono-bromodiphenyl ether	mg/kg	5	ND	_	_
Di-bromodiphenyl ether	mg/kg	5	ND	_	_
Tri-bromodiphenyl ether	mg/kg	5	ND	_	_
Tetra-bromodiphenyl ether	mg/kg	5	ND	_	_
Penta-bromodiphenyl ether	mg/kg	5	ND	_	_
Hexa-bromodiphenyl ether	mg/kg	5	ND	_	_
Hepta-bromodiphenyl ether	mg/kg	5	ND	_	_
Octa-bromodiphenyl ether	mg/kg	5	ND	_	
Nona-bromodiphenyl ether	mg/kg	5	ND	_	_
Deca-bromodiphenyl ether	mg/kg	5	ND	_	_



Test Hem(s)	Unit	MDL	Result(s)	Client's	RoHS
Test Item(s)			1-1	Limit	Limit
Polybrominated Diphenyl Ethers(PBDEs)	mg/kg	_	ND	600	1000
Dibutyl phthalate(DBP)	mg/kg	30	ND	600	1000
Butylbenzyl phthalate(BBP)	mg/kg	30	ND	600	1000
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	30	ND	600	1000
Di-iso-butyl phthalate(DIBP)	mg/kg	30	ND	600	1000

## Pb, Cd, Hg, Cr(VI) content

Test Method/Equipment: IEC 62321-5:2013,IEC 62321-4:2013+AMD1:2017,IEC 62321-7-1:2015; AAS,ICP-OES,UV-VIS

Test Hom(s)	Unit	MDL	Result(s)	Client's	Dalle Limit
Test Item(s)			1-2	Limit	RoHS Limit
Lead(Pb)	mg/kg	2	ND	600#	1000
Cadmium(Cd)	mg/kg	2	ND	75	100
Mercury(Hg)	mg/kg	2	ND	600	1000
Hexavalent Chromium(Cr(VI))	μg/cm²	0.1	ND	##	•

#### Note:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

µg/cm² =microgram per square centimeter

mg/kg (milligram per kilogram) = ppm (parts per million)

ND=Not Detected

MDL=Method Detection Limit

Results shown as ND are ignored in the sum calculation.

The detected Chromium (Cr) content is "ND", therefore, the Hexavalent Chromium (Cr (VI)) content is "ND", No need for validation test of the Hexavalent Chromium (Cr (VI)). If Chromium (Cr) content exceeds Hexavalent Chromium (Cr (VI)) method detection limit, Validation test of the Hexavalent Chromium (Cr (VI)) is required.

• = According to the test method IEC 62321-7-1:2015: ①The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13μg/cm². The sample coating is considered to contain Cr(VI); ②The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10μg/cm²). The coating is considered a non-Cr(VI) based coating; ③The result between 0.10μg/cm² and 0.13μg/cm² is considered to be inconclusive -unavoidable coating variations may influence the determination; The surface difference of samples from different individuals may affect the determination results of Cr(VI); Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

#=PVC category power cord≤300mg/kg, battery≤40mg/kg, ink≤90mg/kg, pure copper and copper alloys with alternative materials≤600mg/kg.

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##=Metal plating ND.





# Sample Description:

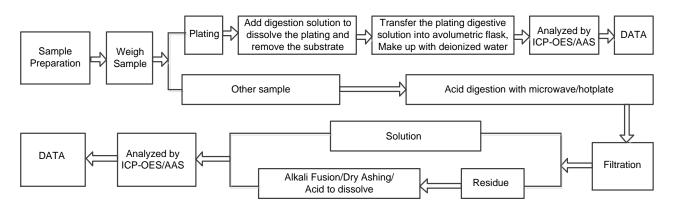
No.	HCT Sample ID	Test Pa	Note	
1-1	1-1 WTH25H03058957C~8959C.1	1-1	Black body	•
1-2		1-2	Silver metal pin	•

#### Note:

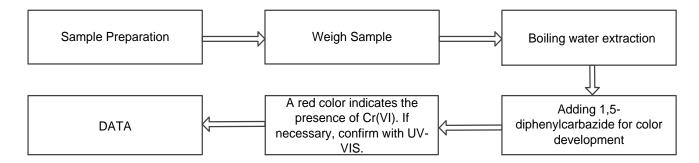
●=Actual tested sample

## **Test Flow Chart:**

Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr)



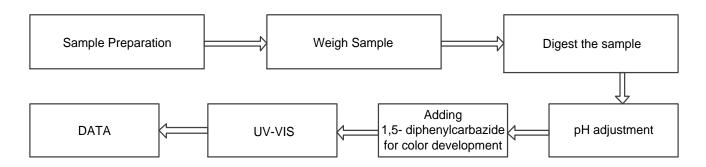
# Hexavalent Chromium(Cr(VI))



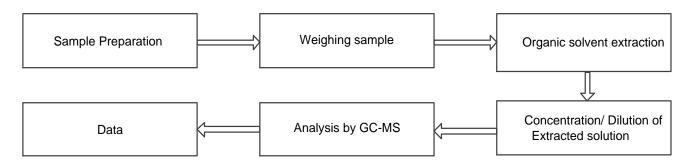




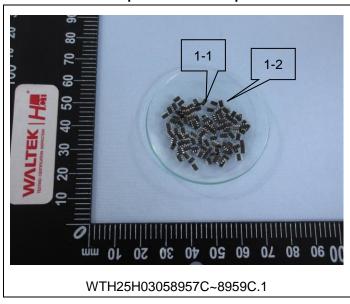




Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Dibutyl phthalate(DBP), Butylbenzyl phthalate(BBP), Di-(2-ethylhexyl) phthalate(DEHP), Di-iso-butyl phthalate(DIBP)



# The photo of the sample







## Statement:

- 1. This report is considered invalid without approved signature and special seal.
- 2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified.
- The result(s)(conclusion) shown in this report refer(s) only to the sample(s) tested.
- 4. Without written approval of HCT, this report can't be reproduced except in full.
- 5. The result(s) in no CMA logo report shall only be used for client's scientific research, teaching, internal quality control, product research and development, etc..and just for internal reference.
- 6. The "n" in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation.
- 7. Decision rules used in this report:
  - (1)According to the Decision rules in the regulations/standards listed in the Test Requested;
  - (2) If there is no Decision rules specified in the regulations listed in the Test Requested, then according to CNAS-GL015 Guidelines on Decision Rules and Statements of Conformity, 6.2.1, Simple Acceptance (w=0) of The binary Decision rule:

PASS (Accepted) - The measured value is within the tolerance interval.

FAIL (Rejected) - The measured value is outside the tolerance interval.

===== End of Report =====

